**Practical 23**

1. Write a Program to capture an Image using camera.

Xml Code :

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity"

android:orientation="vertical">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textColor="@color/black"

android:layout\_gravity="center"

android:textSize="20dp"

android:layout\_marginTop="25dp"

android:text="Program to capture an image using camera"/>

<ImageView

android:id="@+id/im1"

android:layout\_marginTop="20dp"

android:layout\_width="410dp"

android:layout\_height="410dp"/>

<Button

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="90dp"

android:text="Capture and Set Image"

android:textSize="25dp"

android:layout\_gravity="center"

android:layout\_marginTop="20dp"

android:backgroundTint="@color/black"

/>

</LinearLayout>

Java Code :

package com.example.exp23;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.graphics.Bitmap;

import android.os.Bundle;

import android.provider.MediaStore;

import android.view.View;

import android.widget.Button;

import android.widget.ImageView;

public class MainActivity extends AppCompatActivity {

int CameraPhotoRequestCode;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Button b1 = (Button) findViewById(R.id.b1);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent i1 = new Intent(MediaStore.ACTION\_IMAGE\_CAPTURE);

startActivityForResult(i1,CameraPhotoRequestCode);

}

});

}

protected void onActivityResult(int requestcode, int resultCode, Intent data) {

ImageView im1 = (ImageView) findViewById(R.id.im1);

super.onActivityResult(requestcode, resultCode, data);

if (requestcode == CameraPhotoRequestCode){

Bitmap photo = (Bitmap) data.getExtras().get("data");

im1.setImageBitmap(photo);

}

}

Output :

Graphical user interface

Description automatically generated